

Session finished: 16 MAY 2000 Time 20:34:15

LGST - Time in minutes : 0,19

The cost estimation below is based on Questel's  
standard price list

	Estimated cost :	0.19 USD
Records displayed and billed :	1	
	Estimated cost :	1.56 USD
Cost estimated for the last database search :		1.75 USD
Estimated total session cost :		2.87 USD

CRXX - Time in minutes : 0,15

The cost estimation below is based on Questel's  
standard price list

	Estimated cost :	0.25 USD
Records displayed and billed :	1	
	Estimated cost :	3.28 USD
Cost estimated for the last database search :		3.53 USD
Estimated total session cost :		6.40 USD

PAST - Time in minutes : 0,17

The cost estimation below is based on Questel's  
standard price list

	Estimated cost :	0.28 USD
Records displayed and billed :	1	
	Estimated cost :	4.77 USD
Cost estimated for the last database search :		5.05 USD
Estimated total session cost :		11.45 USD

LITA - Time in minutes : 0,11

The cost estimation below is based on Questel's  
standard price list

	Estimated cost :	0.18 USD
Cost estimated for the last database search :		0.18 USD
Estimated total session cost :		11.63 USD

Your session will be retained for 2 hours.

QUESTEL.ORBIT thanks you. Hope to hear from you again soon.

1/39/1

DIALOG(R)File 345:Inpadoc/Fam.& Legal Stat  
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10854993

Basic Patent (No,Kind,Date): DE 4117969 A1 921203 <No. of Patents: 008>

Patent Family:

Patent No	Kind	Date	Applic No	Kind	Date	
AT 162854	E	980215	EP 92108771	A	920525	
DE 4117969	A1	921203	DE 4117969	A	910531	(BASIC)
DE 59209160	C0	980305	DE 59209160	A	920525	
EP 518109	A1	921216	EP 92108771	A	920525	
EP 518109	B1	980128	EP 92108771	A	920525	
JP 5184903	A2	930727	JP 92140357	A	920601	
JP 95063612	B4	950712	JP 92140357	A	920601	
US 5245736	A	930921	US 888111	A	920526	

Priority Data (No,Kind,Date):

DE 4117969 A 910531  
DE 59209160 A 920525

PATENT FAMILY:

AUSTRIA (AT)

Patent (No,Kind,Date): AT 162854 E 980215

VAKUUMBEHANDLUNGSSANLAGE (German)

Patent Assignee: BALZERS HOCHVAKUUM (LI)

Author (Inventor): SCHERTLER ROMAN (AT)

Priority (No,Kind,Date): DE 4117969 A 910531

Applic (No,Kind,Date): EP 92108771 A 920525

Addnl Info: 00518109 980128

IPC: \* C23C-014/56; C23C-014/50; C23C-014/34; H01L-021/00

Derwent WPI Acc No: \* C 92-408165

Language of Document: German

AUSTRIA (AT)

Legal Status (No,Type,Date,Code,Text):

AT 162854 R 980215 AT REF CORRESPONDS TO EP-PATENT  
(ENTSPRICHT EP-PATENT)  
EP 518109 P 980128

GERMANY (DE)

Patent (No,Kind,Date): DE 4117969 A1 921203

VAKUUMBEHANDLUNGSSANLAGE (German)

Patent Assignee: BALZERS HOCHVAKUUM (LI)

Author (Inventor): SCHERTLER ROMAN (AT)

Priority (No,Kind,Date): DE 4117969 A 910531

Applic (No,Kind,Date): DE 4117969 A 910531

IPC: \* B01J-003/04; B65G-049/07; C23C-014/22; C23C-016/44; G11B-007/26  
; G11B-013/04

Derwent WPI Acc No: ; C 92-408165

Language of Document: German

Patent (No,Kind,Date): DE 59209160 C0 980305

VAKUUMBEHANDLUNGSSANLAGE (German)

Patent Assignee: BALZERS HOCHVAKUUM (LI)

Author (Inventor): SCHERTLER ROMAN (AT)

Priority (No,Kind,Date): DE 59209160 A 920525; DE 4117969 A  
910531

Applic (No,Kind,Date): DE 59209160 A 920525

IPC: \* C23C-014/56; C23C-014/50; C23C-014/34; H01L-021/00  
Derwent WPI Acc No: \* C 92-408165  
Language of Document: German

GERMANY (DE)

Legal Status (No,Type,Date,Code,Text):

DE 4117969	P	910531	DE AE	DOMESTIC APPLICATION (PATENT APPLICATION) (INLANDSANMELDUNG (PATENTANMELDUNG))
			DE 4117969 A	910531
DE 4117969	P	921203	DE A1	LAYING OPEN FOR PUBLIC INSPECTION (OFFENLEGUNG)
DE 4117969	P	921203	DE OP8	REQUEST FOR EXAMINATION AS TO PARAGRAPH 44 PATENT LAW (PRUEFUNGSANTRAG GEM. PAR. 44 PATG. IST GESTELLT)
DE 59209160	P	980305	DE REF	CORRESPONDS TO (ENTSPRICHT)
			EP 518109 P	980305
DE 59209160	P	990304	DE 8364	NO OPPOSITION DURING TERM OF OPPOSITION (EINSPRUCHSFRIST ABGELAUFEN OHNE DASS EINSPRUCH ERHOBEN WURDE)

EUROPEAN PATENT OFFICE (EP)

Patent (No,Kind,Date): EP 518109 A1 921216

APPARATUS FOR VACUUM TREATMENT (English; French; German)

Patent Assignee: BALZERS HOCHVAKUUM (LI)

Author (Inventor): SCHERTLER ROMAN (AT)

Priority (No,Kind,Date): DE 4117969 A 910531

Applic (No,Kind,Date): EP 92108771 A 920525

Designated States: (National) AT; CH; DE; FR; GB; LI; NL

IPC: \* C23C-014/56; C23C-014/50; C23C-014/34; H01L-021/00

Language of Document: German

Patent (No,Kind,Date): EP 518109 B1 980128

APPARATUS FOR VACUUM TREATMENT (English; French; German)

Patent Assignee: BALZERS HOCHVAKUUM (LI)

Author (Inventor): SCHERTLER ROMAN (AT)

Priority (No,Kind,Date): DE 4117969 A 910531

Applic (No,Kind,Date): EP 92108771 A 920525

Designated States: (National) AT; CH; DE; FR; GB; LI; NL

IPC: \* C23C-014/56; C23C-014/50; C23C-014/34; H01L-021/00

Derwent WPI Acc No: \* C 92-408165

Language of Document: German

EUROPEAN PATENT OFFICE (EP)

Legal Status (No,Type,Date,Code,Text):

EP 518109	P	910531	EP AA	PRIORITY (PATENT APPLICATION) (PRIORITAET (PATENTANMELDUNG))
			DE 4117969 A	910531
EP 518109	P	920525	EP AE	EP-APPLICATION (EUROPAEISCHE ANMELDUNG)
			EP 92108771 A	920525
EP 518109	P	921216	EP AK	DESIGNATED CONTRACTING STATES IN AN APPLICATION WITH SEARCH REPORT (IN EINER ANMELDUNG BENANNTE VERTRAGSSTAATEN)
			AT CH DE FR GB LI NL	
EP 518109	P	921216	EP A1	PUBLICATION OF APPLICATION WITH SEARCH REPORT (VEROEFFENTLICHUNG DER ANMELDUNG MIT RECHERCHENBERICHT)

EP 518109	P	930331	EP 17P	REQUEST FOR EXAMINATION FILED (PRUEFUNGSANTRAG GESTELLT) 930204
EP 518109	P	941005	EP 17Q	FIRST EXAMINATION REPORT (ERSTER PRUEFUNGSBESCHIED) 940823
EP 518109	P	980128	EP AK	DESIGNATED CONTRACTING STATES MENTIONED IN A PATENT SPECIFICATION: (IN EINER PATENTSCHRIFT ANGEFUEHRTE BENANNT VERTRAGSSTAATEN) AT CH DE FR GB LI NL
EP 518109	P	980128	EP B1	PATENT SPECIFICATION (PATENTSCHRIFT)
EP 518109	P	980128	EP REF	IN AUSTRIA REGISTERED AS: (IN AT EINGETRAGEN ALS:) AT 162854 R 980215
EP 518109	P	980130	CH EP/REG	ENTRY IN THE NATIONAL PHASE (EINTRITT IN DIE NATIONALE PHASE)
EP 518109	P	980225	EP GBT	GB: TRANSLATION OF EP PATENT FILED (GB SECTION 77(6)(A)/1977) (GB: TRANSLATION OF EP PATENT FILED (GB SECT. 77(6)(A)/1977)) 980129
EP 518109	P	980305	EP REF	CORRESPONDS TO: (ENTSPRICHT) DE 59209160 P 980305
EP 518109	P	980417	EP ET	FR: TRANSLATION FILED (FR: TRADUCTION A ETE REMISE)
EP 518109	P	990120	EP 26N	NO OPPOSITION FILED (KEIN EINSPRUCH EINGELEGT)

#### JAPAN (JP)

Patent (No,Kind,Date): JP 5184903 A2 930727  
VACUUM TREATING EQUIPMENT AND DEVICE FOR RETAINING DISK-LIKE MATERIAL  
WITH CENTER HOLE DURING SAID TREATMENT (English)  
Patent Assignee: BALZERS HOCHVAKUUM  
Author (Inventor): ROMAN SHIYATORAA  
Priority (No,Kind,Date): DE 4117969 A 910531  
Applic (No,Kind,Date): JP 92140357 A 920601  
IPC: \* B01J-003/00; B01J-003/02  
Language of Document: Japanese  
Patent (No,Kind,Date): JP 95063612 B4 950712  
Priority (No,Kind,Date): DE 4117969 A 910531  
Applic (No,Kind,Date): JP 92140357 A 920601  
IPC: \* B01J-003/00; B01J-003/02; C23C-016/44; G11B-007/26; G11B-011/10  
Derwent WPI Acc No: \* C 92-408165  
Language of Document: Japanese

#### UNITED STATES OF AMERICA (US)

Patent (No,Kind,Date): US 5245736 A 930921  
VACUUM PROCESS APPARATUS (English)  
Patent Assignee: BALZERS HOCHVAKUUM (LI)  
Author (Inventor): SCHERTLER ROMAN (AT)  
Priority (No,Kind,Date): DE 4117969 A 910531  
Applic (No,Kind,Date): US 888111 A 920526  
National Class: \* 029033000P; 029563000; 029559000; 269021000  
IPC: \* B23B-015/00; B25B-011/00  
Derwent WPI Acc No: \* C 92-408165

Language of Document: English

UNITED STATES OF AMERICA (US)

Legal Status (No, Type, Date, Code, Text):

US 5245736	P	910531	US AA	PRIORITY (PATENT)
			DE 4117969	A 910531
US 5245736	P	920526	US AE	APPLICATION DATA (PATENT)
				(APPL. DATA (PATENT))
			US 888111	A 920526
US 5245736	P	920806	US AS02	ASSIGNMENT OF ASSIGNOR'S
				INTEREST
				BALZERS AKTIENGESELLSCHAFT , LIECHTENSTEIN ;
				SCHERTLER, ROMAN : 19920716
US 5245736	P	930921	US A	PATENT
US 5245736	P	951212	US RF	REISSUE APPLICATION FILED
				(REISSUE APPL. FILED)
				950919

?show files;ds;logoff

File 345:Inpadoc/Fam.& Legal Stat 1968-2000/UD=200018

(c) 2000 EPO

Set	Items	Description
S1	1	PN="US-5245736"

16may00 13:30:06 User262807 Session D391.2

\$11.65 Estimated total session cost 0.453 DialUnits

### Status: Signed Off. (2 minutes)

1/3 LGST (1/1) - (C) LEGSTAT  
PN - US 5245736 [US5245736]  
AP - US 888111/92 19920526 [1992US-0888111]  
DT - US-P  
ACT - 19920526 US/AE-A  
APPLICATION DATA (PATENT)  
{US 888111/92 19920526 [1992US-0888111]}  
- 19920806 US/AS02  
ASSIGNMENT OF ASSIGNOR'S INTEREST  
BALZERS AKTIENGESELLSCHAFT , LIECHTENSTEIN \* SCHERTLER, ROMAN :  
19920716  
- 19930921 US/A  
PATENT  
- 19951212 US/RF  
REISSUE APPLICATION FILED  
950919  
UP - 1999-13

2/3 CRXX (1/1) - (C) CLAIMS/RRX  
AN - 2399108  
PN - 5,245,736 A 19930921 [US5245736]  
PA - Balzers AG LI  
PT - M (Mechanical)  
ACT - 19950919 REISSUE REQUESTED  
Issue Date of O.G.: 19951212  
Reissue Request Number: 08/530778  
Examination Group responsible for Reissue process: 3206  
UP - 1999-00

3/3 PAST (1/1) - (C) PAST  
AN - 199550-001162  
PN - 5245736 A [US5245736]  
DT - A (UTILITY)  
OG - 1995-12-12  
CO - REA  
ACT - REISSUE APPLICATION FILED  
SH - REISSUE APPLICATION FILED

DATE: MAY 16, 2000  
CLIENT: 1147  
LIBRARY: NEWS  
FILE: CURNWS

Sign off: 2:32 P.M. Eastern Time, MAY 16, 2000.  
Elapsed time for this research session: 1 MINUTE, 56 SECONDS.  
Number of searches executed during this session: 4.



Term not in index/PN-LITA : US5245736

LGST	1
CRXX	1
PAST	1
LITA	0

<5,245,736>

<=> GET 1st DRAWING SHEET OF 5

Sep. 21, 1993

Vacuum process apparatus

REISSUE: Reissue Application filed Sep. 19, 1995 (O.G. Dec. 12, 1995) Ex.  
Gp.:3206; Re. S.N. 08/530,778

CORE TERMS: station, transport, conveyor, chamber, vacuum, arm, rotational,  
workpiece, cone, trajectory...

>>>

5,245,736 OR 5245736

Your search request has found no CASES.

Your search request has found no ITEMS.

Your search request has found no STORIES.